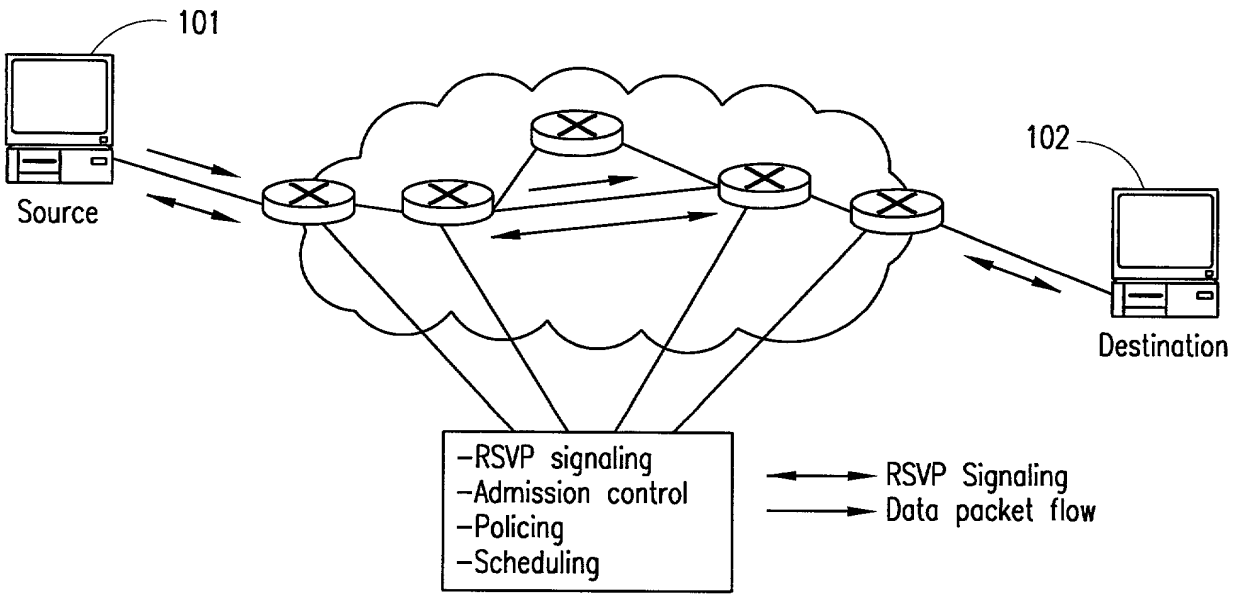
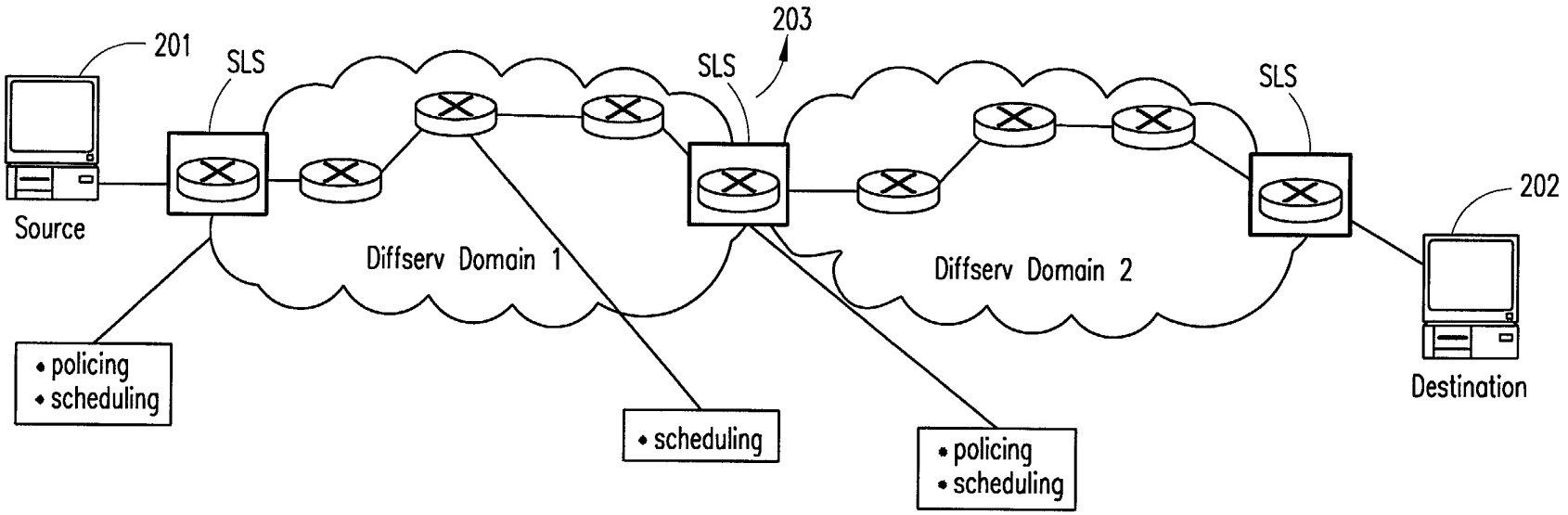


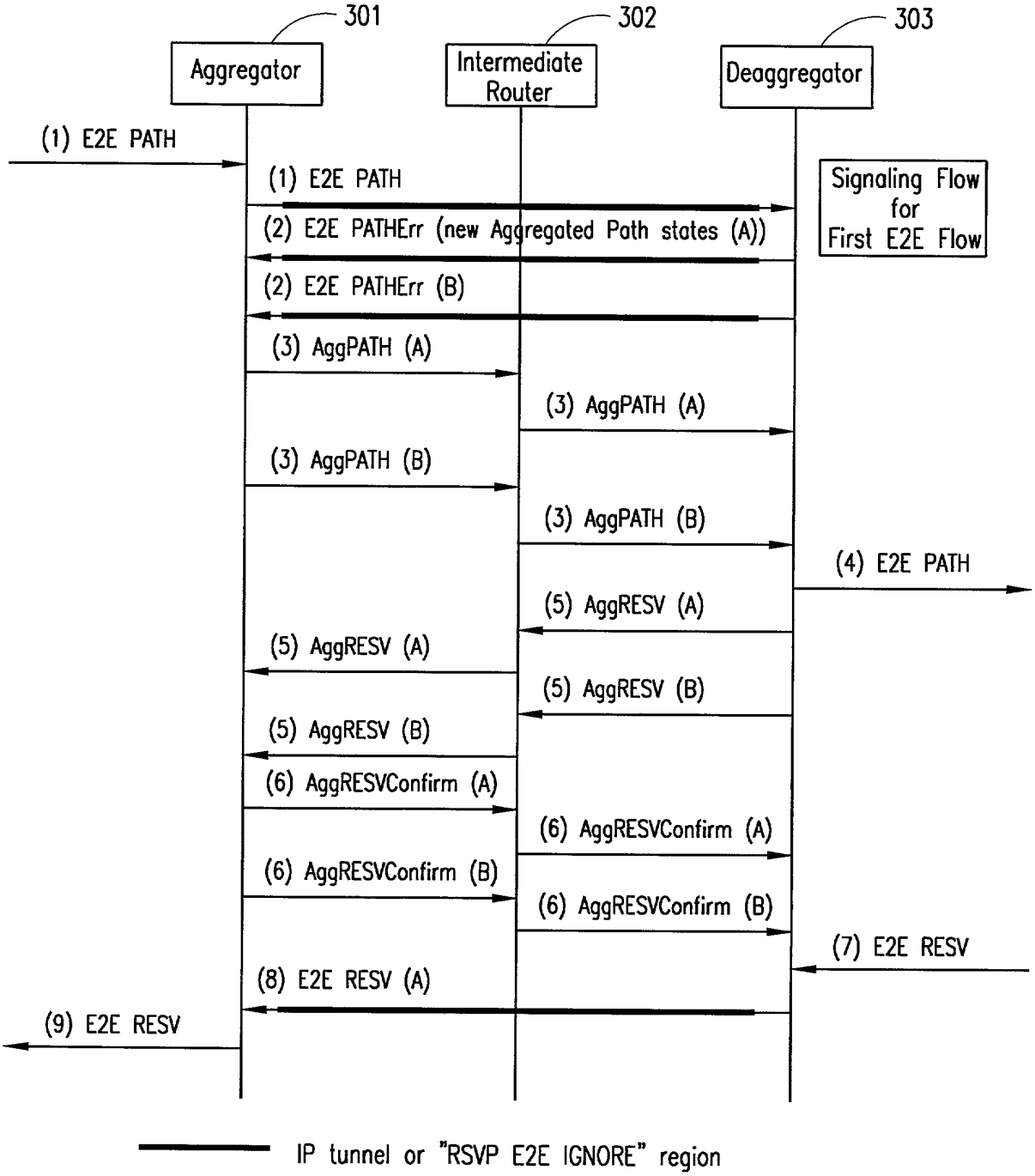
RSVP/Intserv framework

FIG. 1



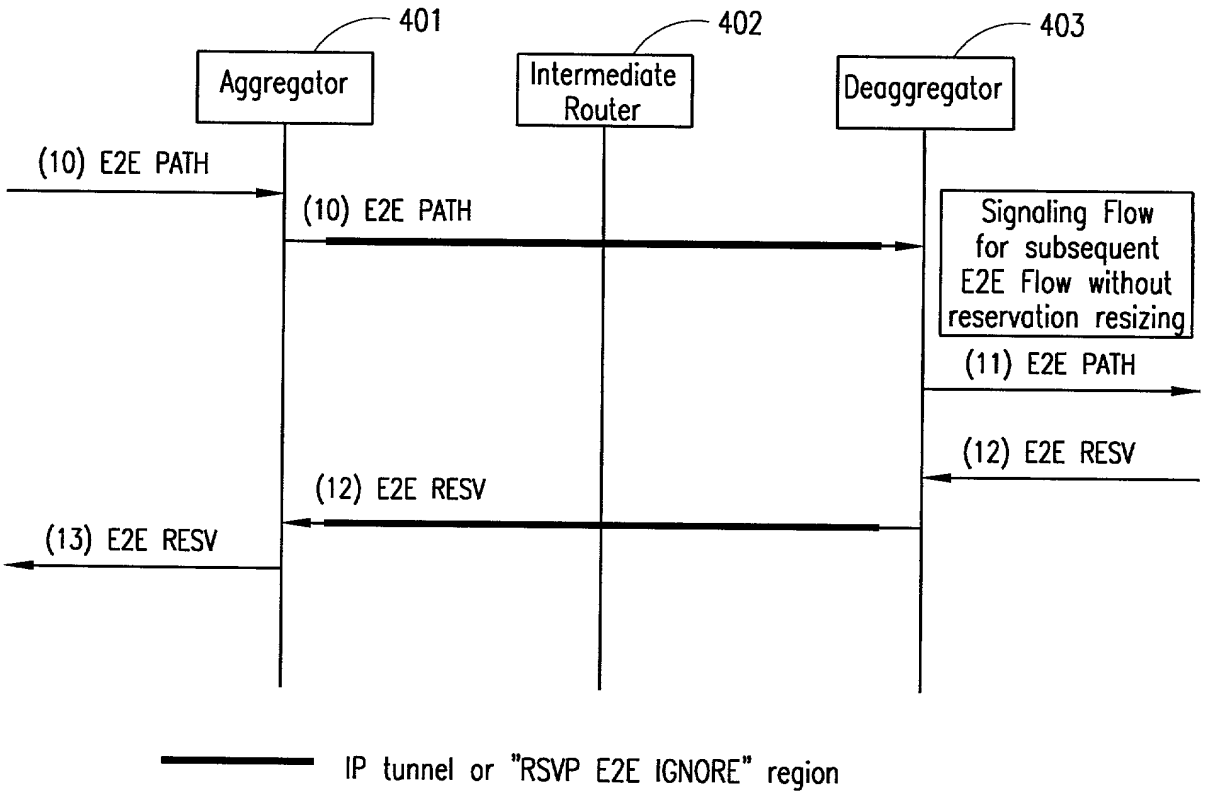
Differentiated services framework

FIG. 2



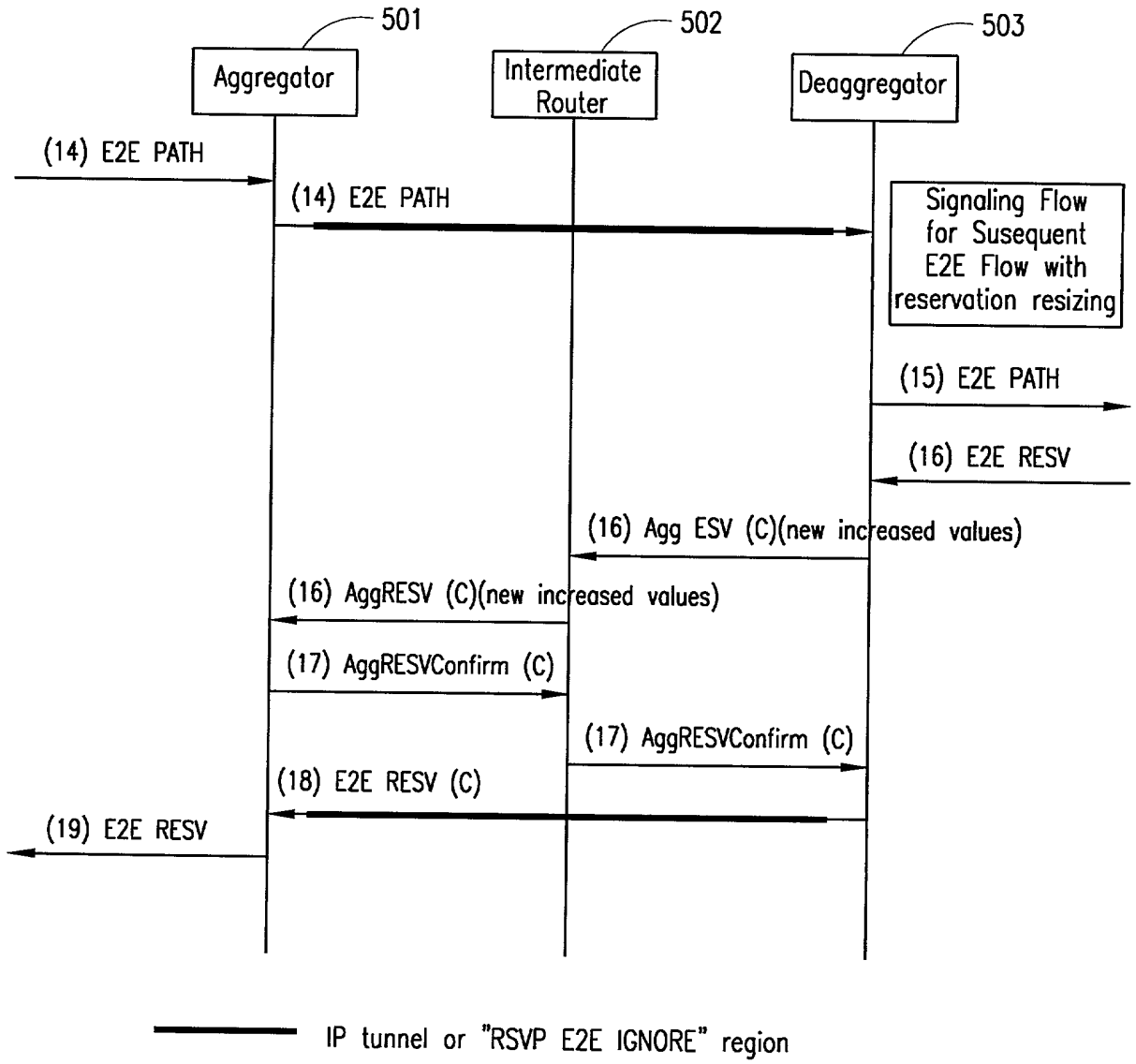
RSVP aggregation signaling flow for first E2E flow

FIG. 3



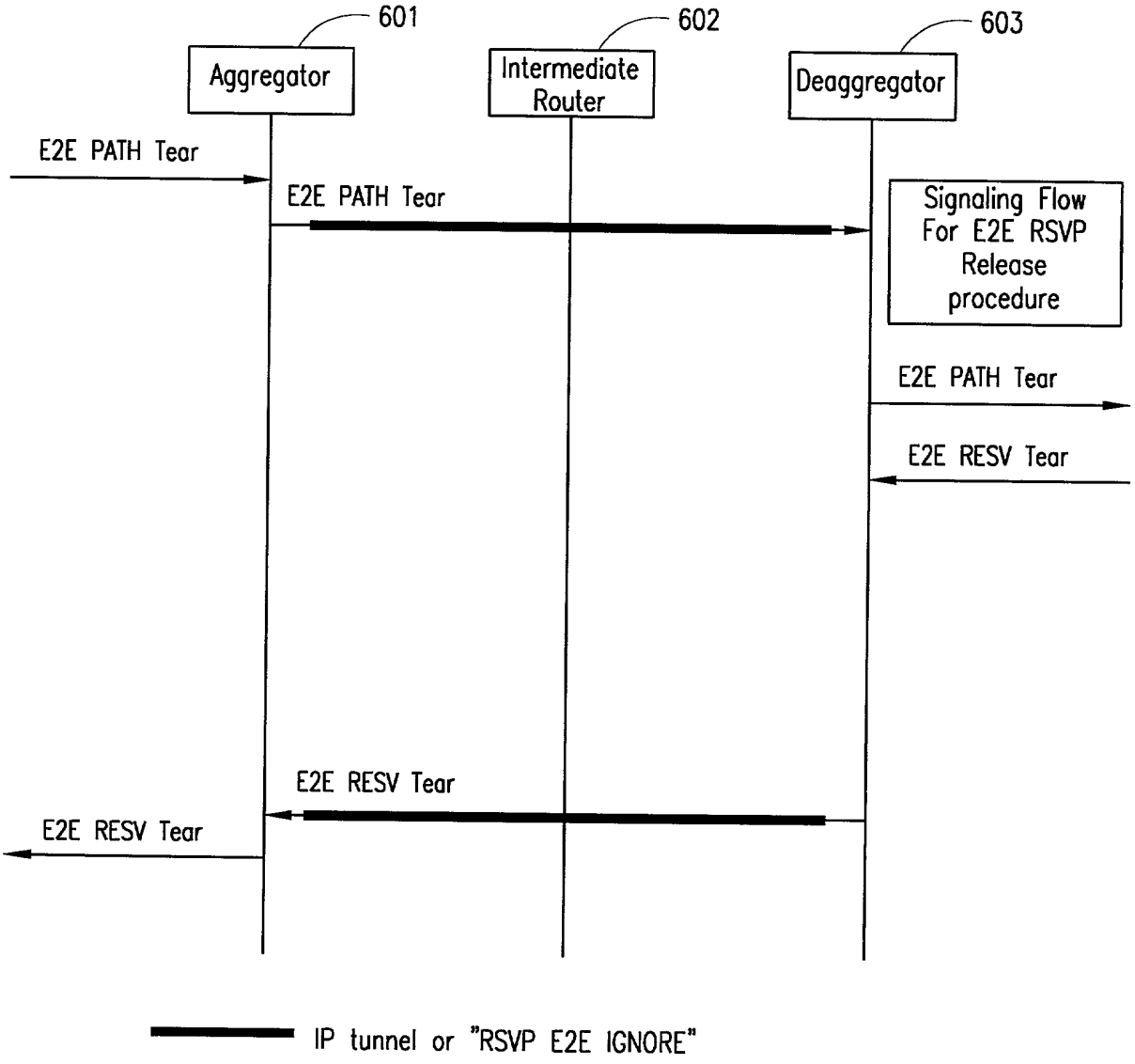
RSVP aggregation signaling flow for subsequent E2E flow without reservation resizing

FIG. 4



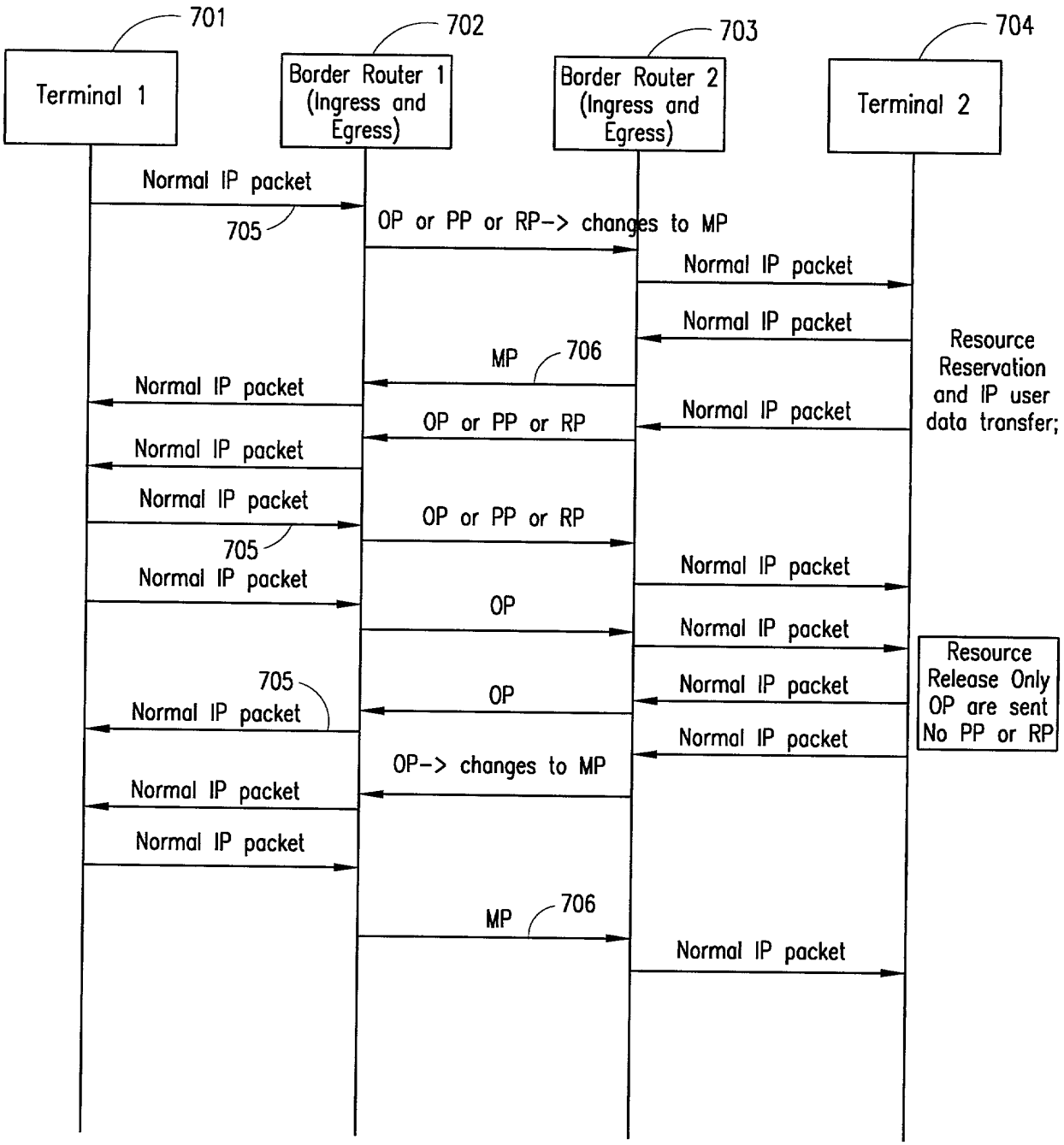
RSVP aggregation signaling flow for subsequent E2E flow with reservation resizing

FIG. 5



RSVP aggregation signaling flow for E2E release

FIG. 6



Resource reservation and resource release procedures in Load Control

FIG. 7

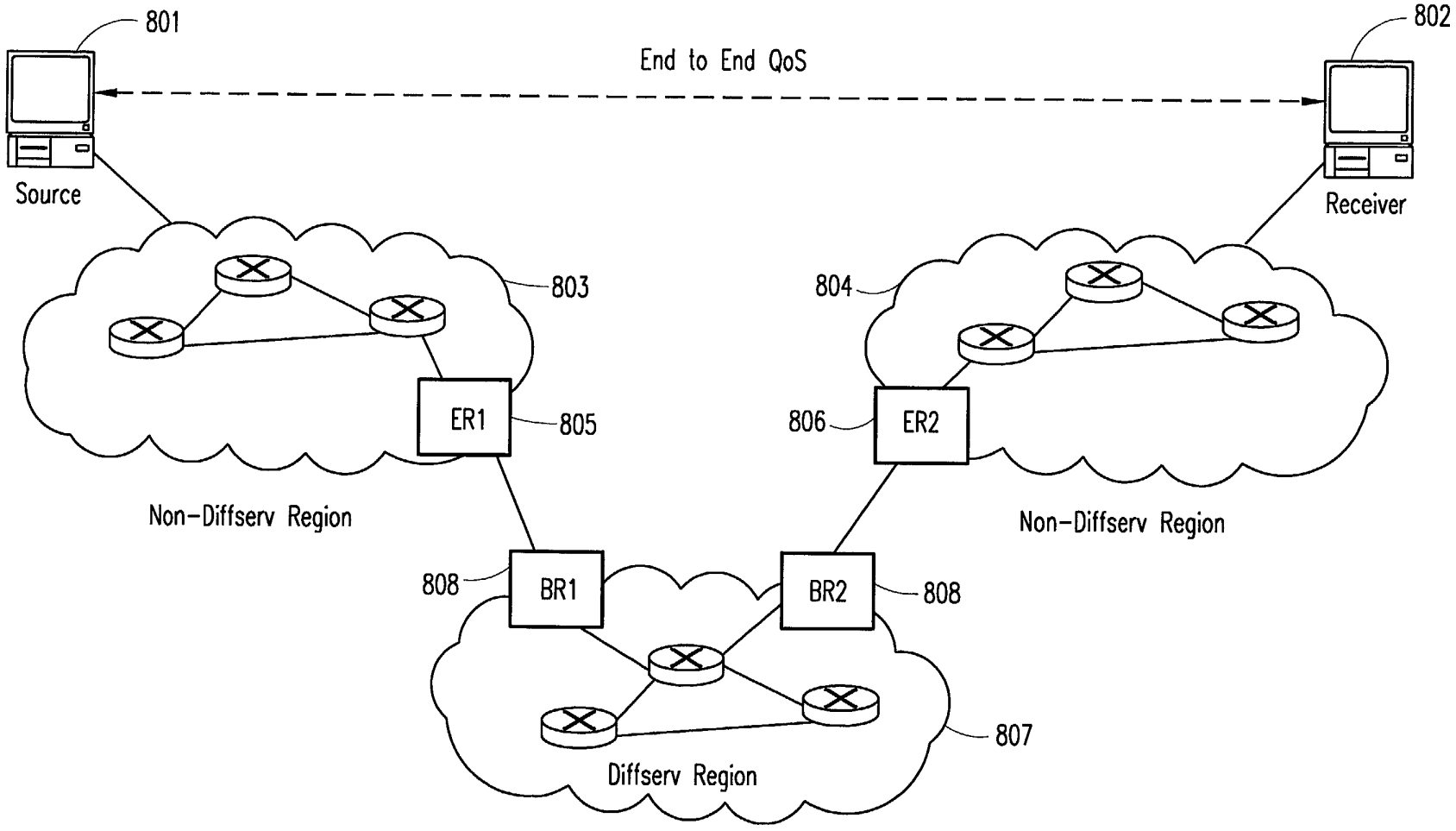
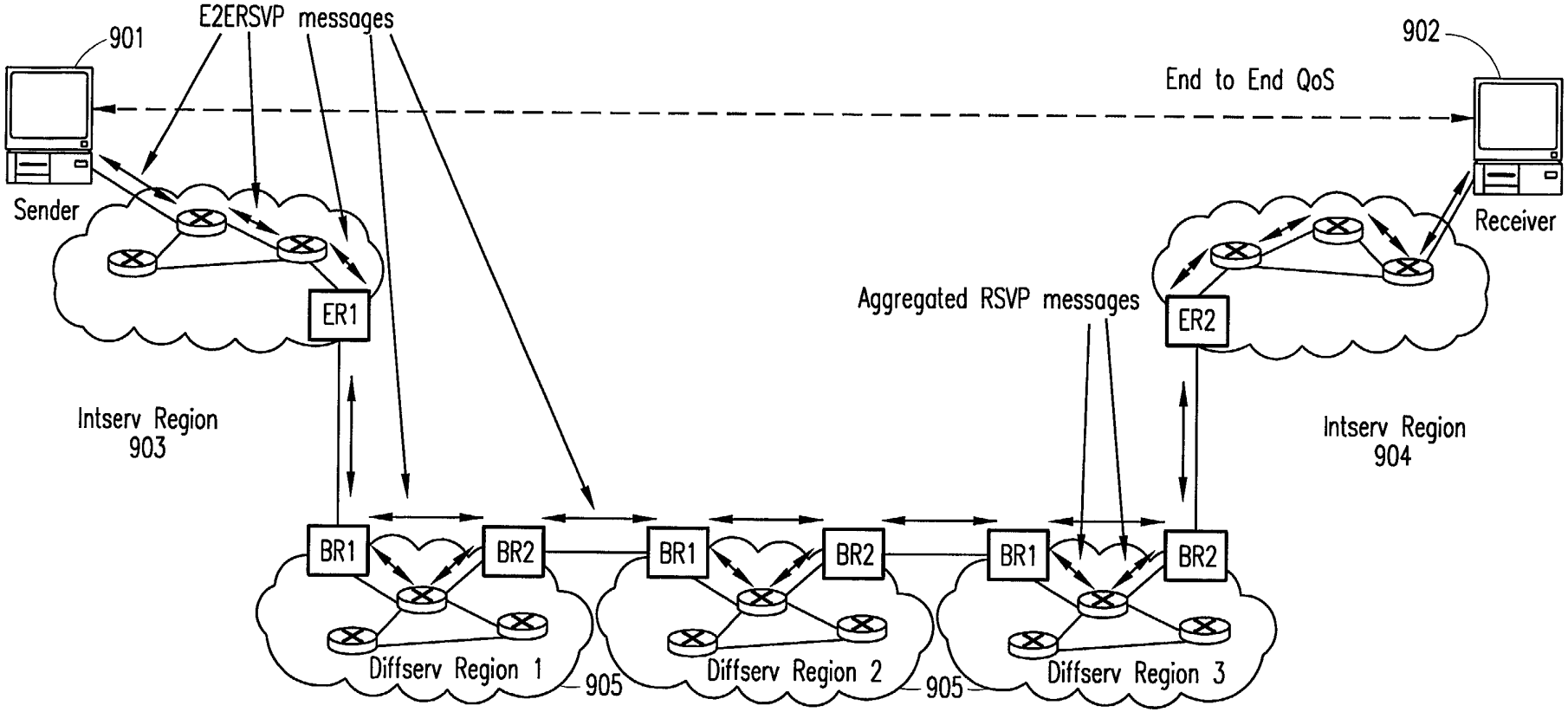
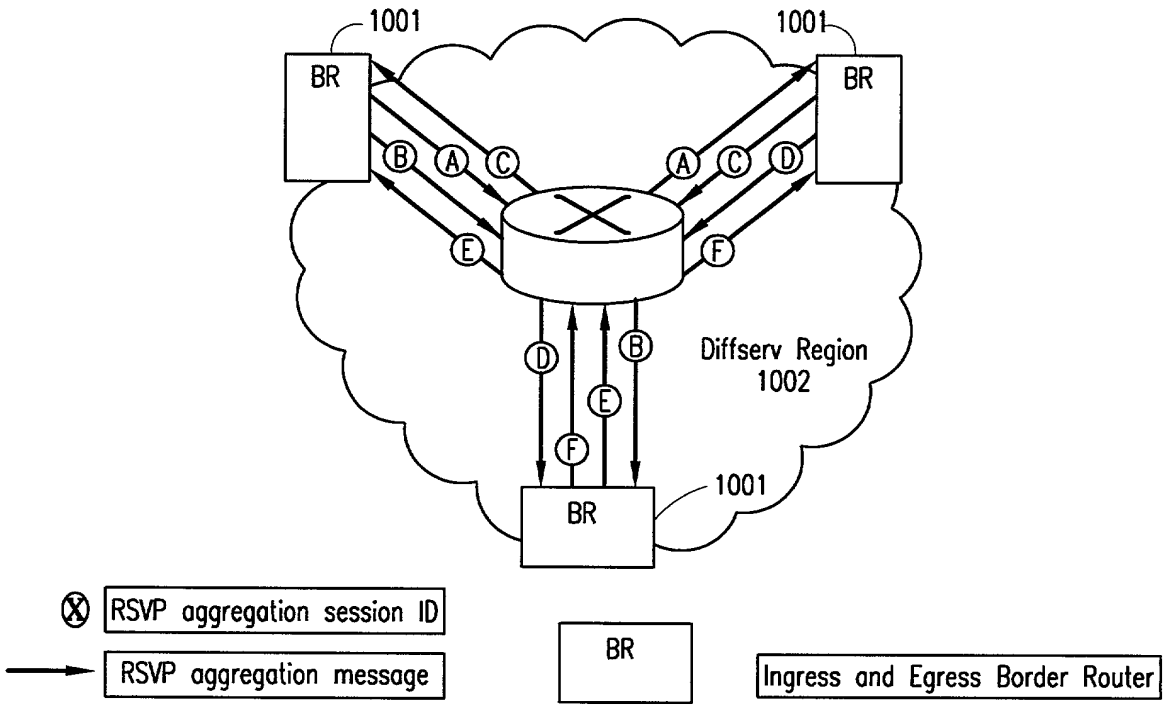

801
802
End to End QoS
Source
Receiver
803
804
ER1
805
806
ER2
Non-Diffserv Region
Non-Diffserv Region
808
BR1
BR2
808
807
Diffserv Region
Intserv/Diffserv framework

FIG. 8



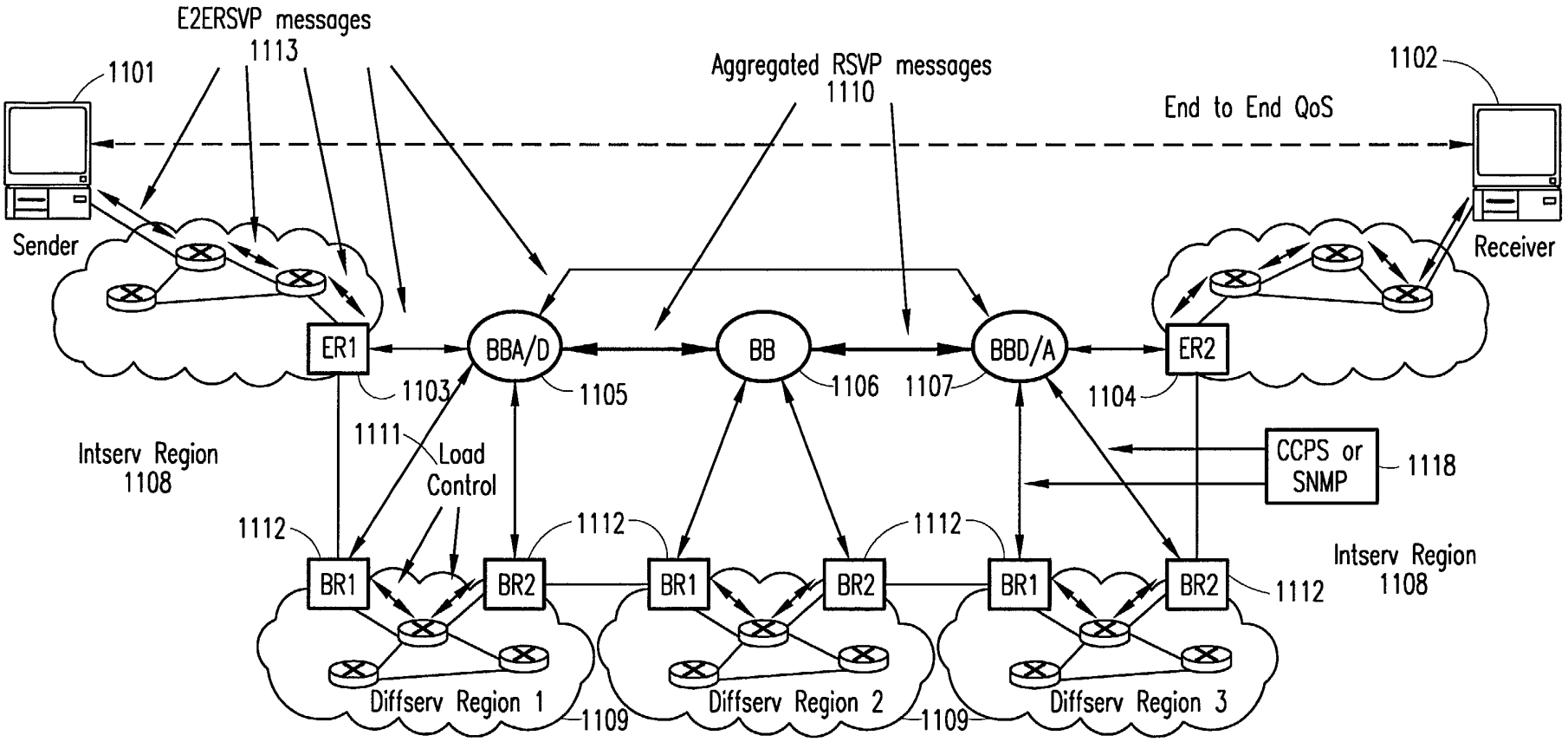
Intserv over Diffserv framework using RSVP aggregation within each Diffserv domain

FIG. 9



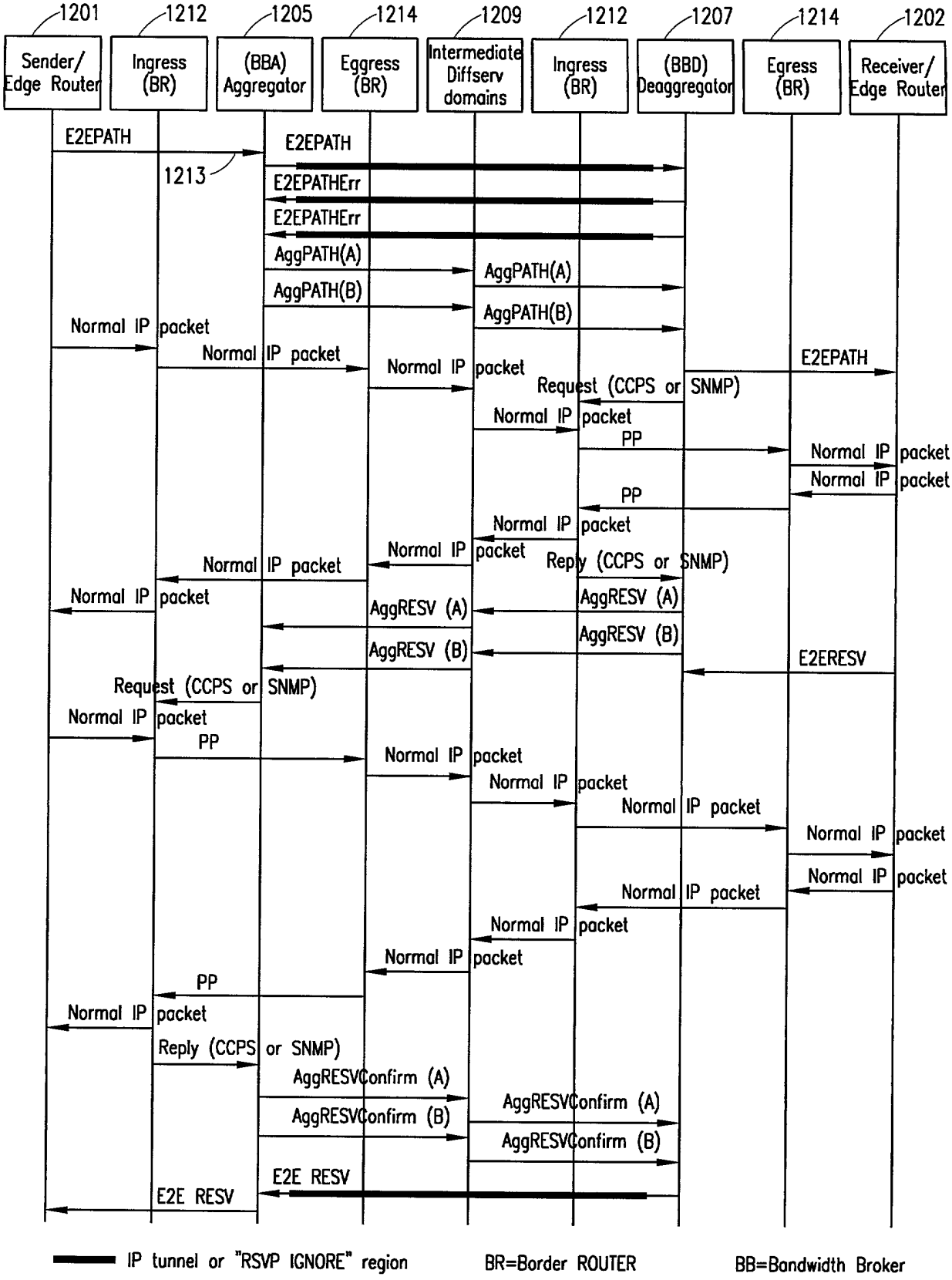
Example of full meshed Diffserv domain with three Border Routers and one Core Router

FIG. 10



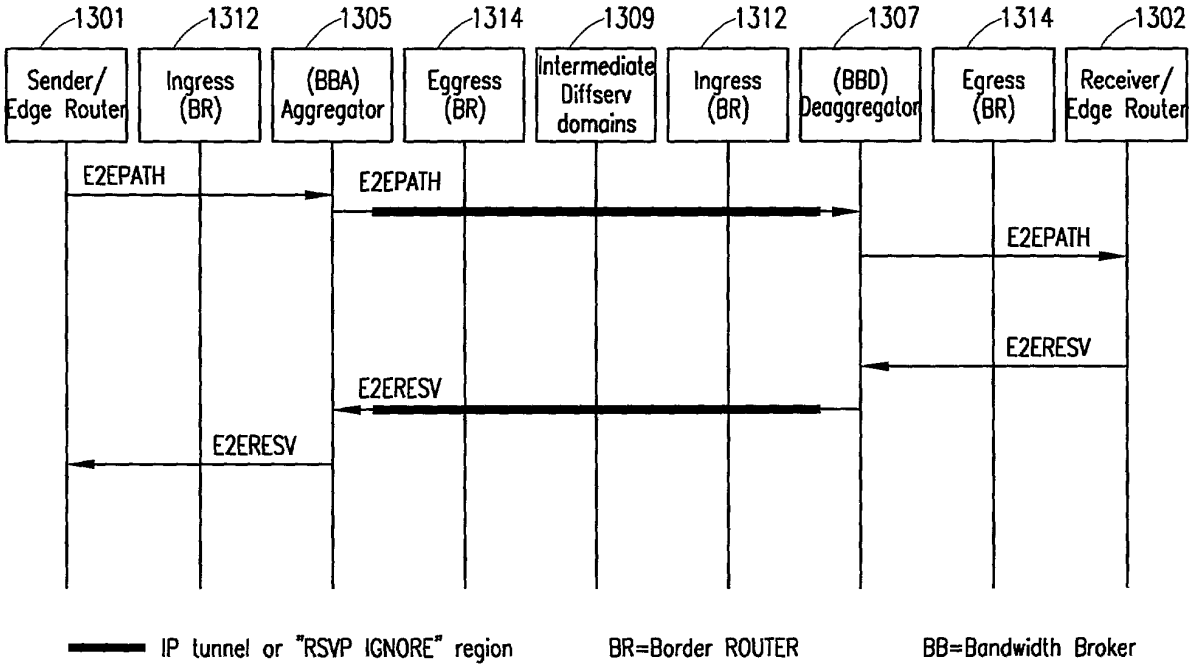
Proposed Intserv/Diffserv framework

FIG. 11



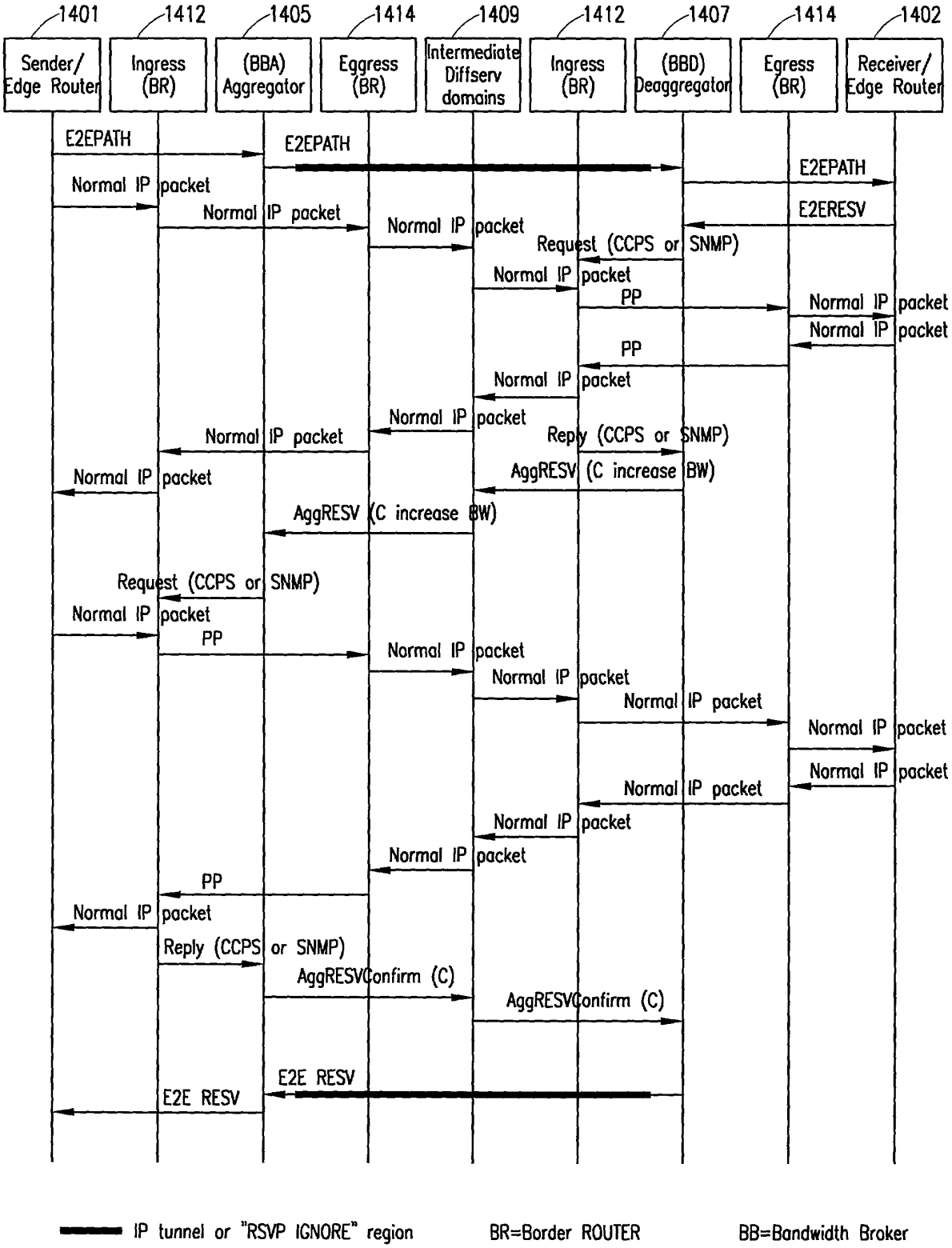
Example of the proposed Intserv/Diffserv operation when RSVP aggregated states are not available in the BB's

FIG. 12



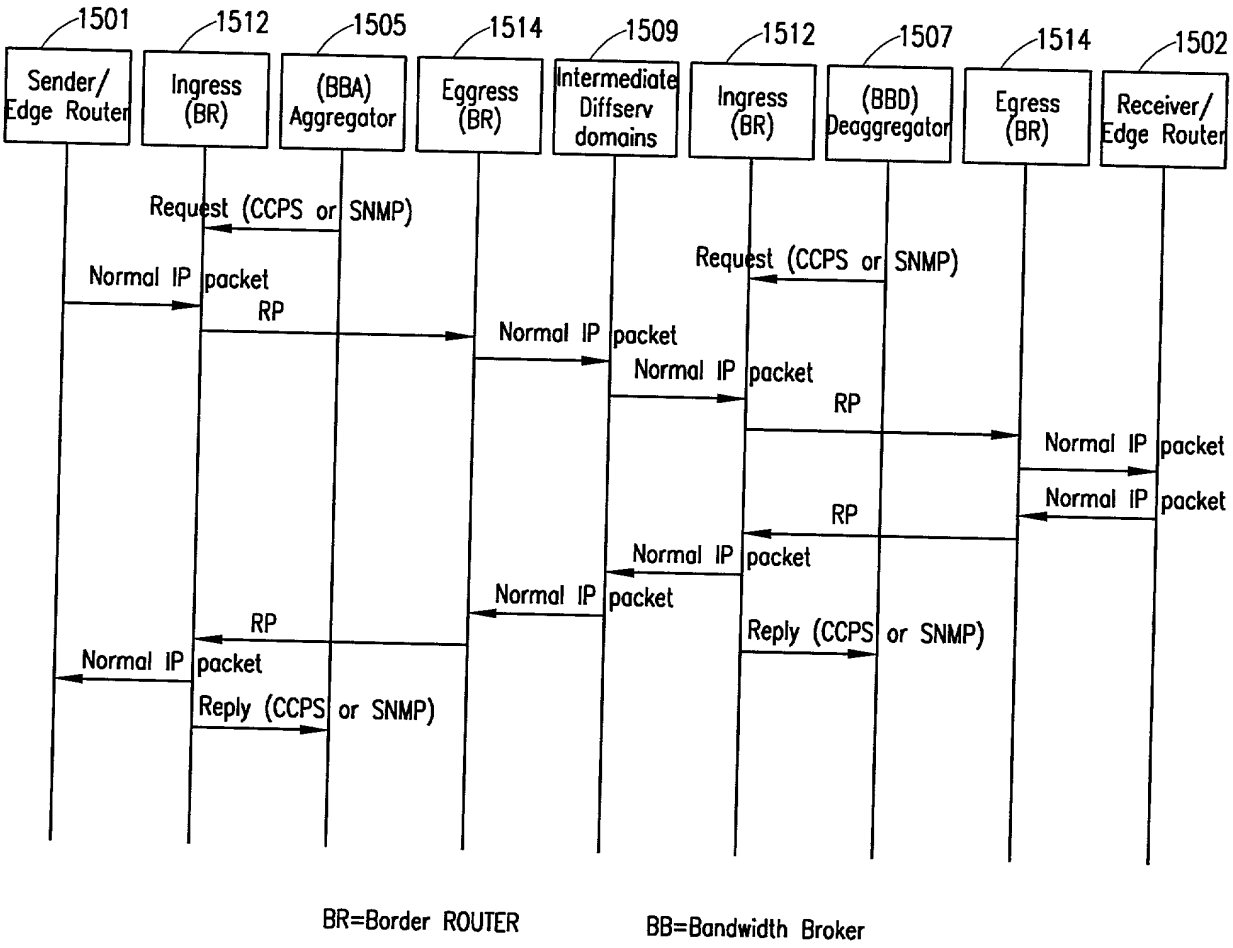
Example of the proposed Intserv/Diffserv operation when RSVP aggregated states are available in the BB's and no resizing is needed

FIG. 13



Example of the proposed Intserv/Diffserv operation when RSVP aggregated states are available in the BB's and resizing is needed

FIG. 14



Example of refreshment of the reserved resources

FIG. 15